

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1211710

Luminaire Tested: **ARCH4-90-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11007 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

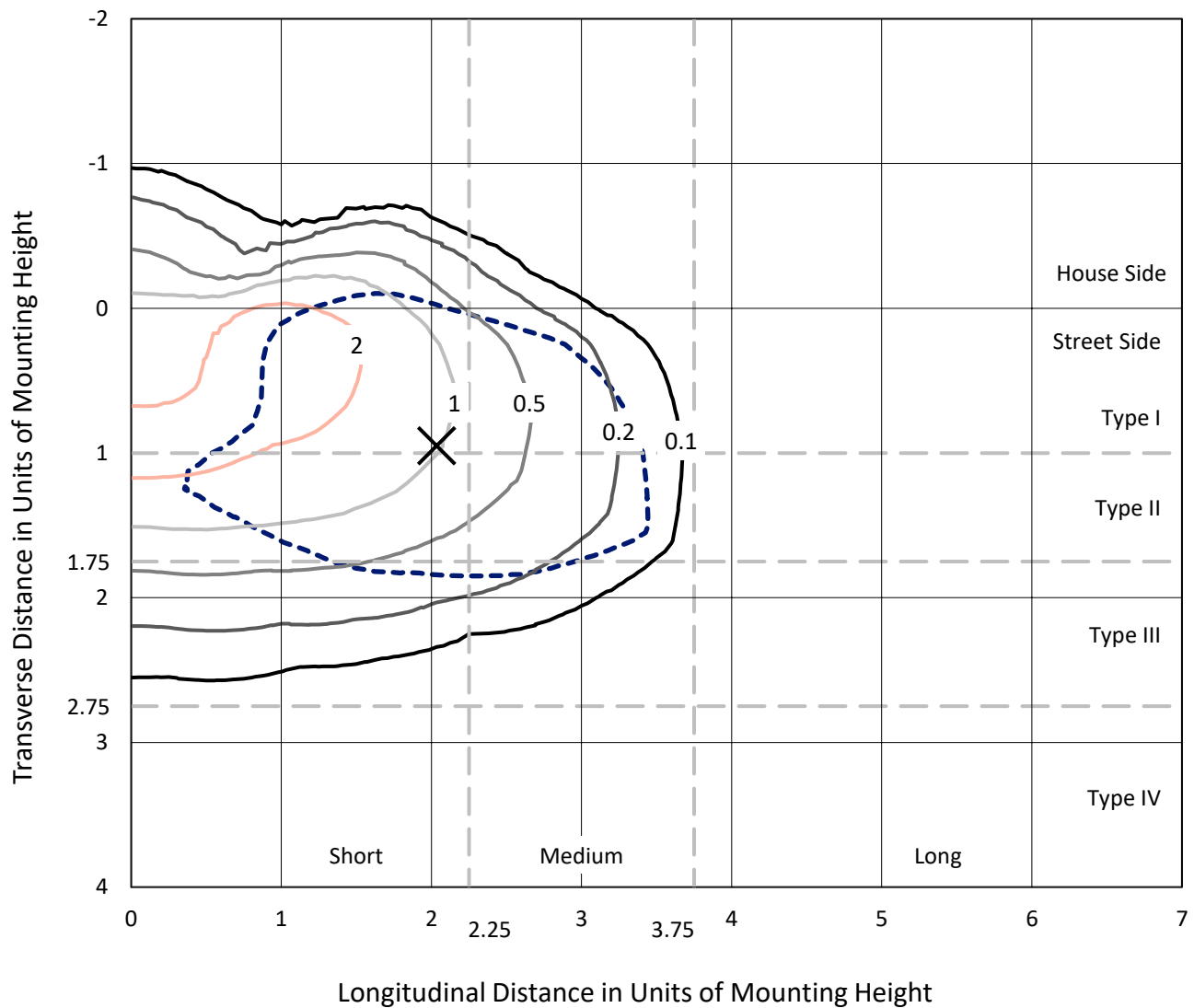
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1211710
 CATALOG NUMBER: ARCH4-90-730-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

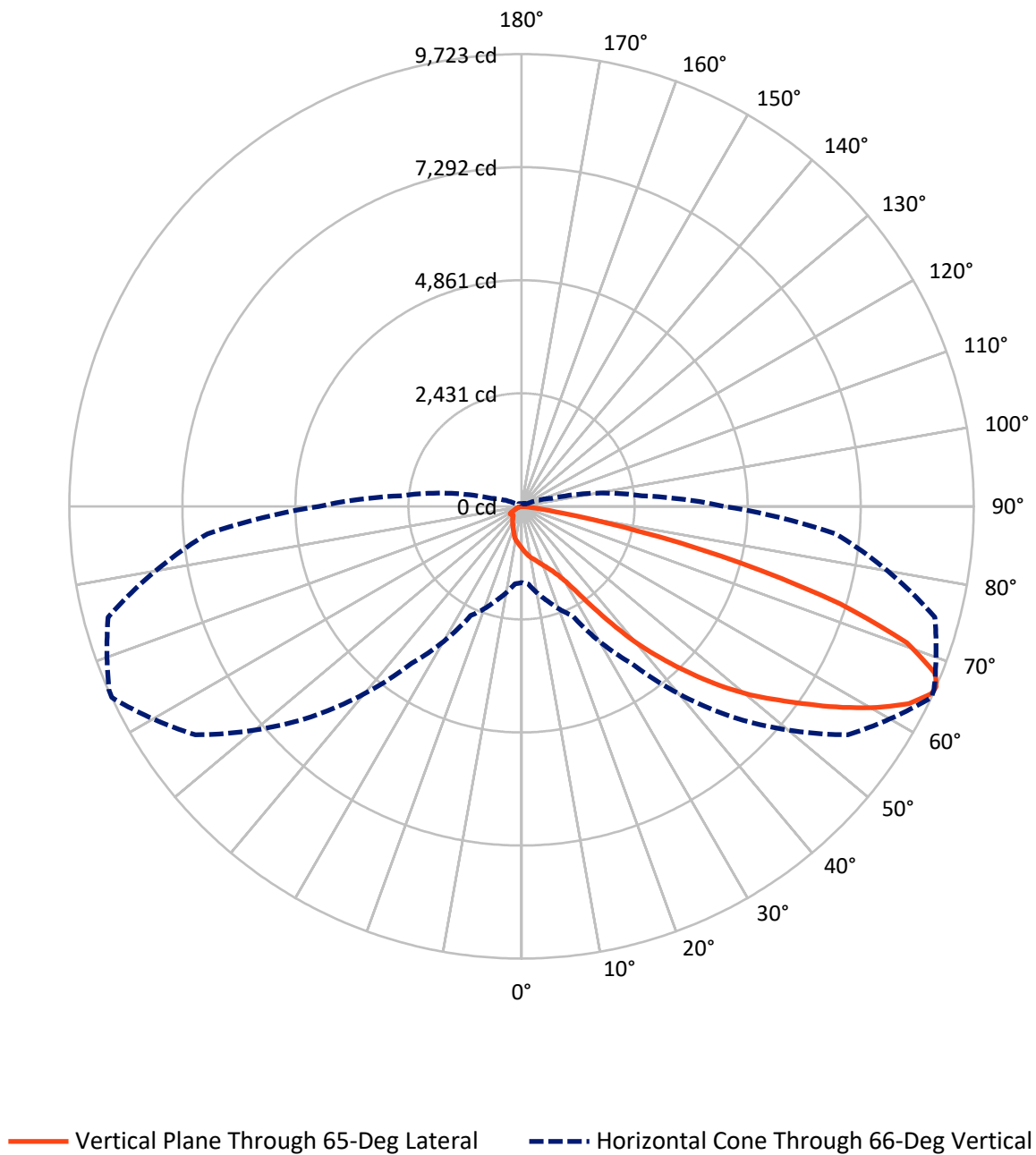
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

REPORT NUMBER: P1211710
CATALOG NUMBER: ARCH4-90-730-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211710

CATALOG NUMBER: ARCH4-90-730-U-T3RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.1	0.0	1299.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	9707.9	0.0	9707.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	11007.0	0.0	11007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	0.8
10°-20°	251.7	2.3
20°-30°	460.6	4.2
30°-40°	936.0	8.5
40°-50°	1976.6	18.0
50°-60°	3038.6	27.6
60°-70°	3058.6	27.8
70°-80°	1142.8	10.4
80°-90°	57.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11007.0	100.0
0°-180°	11007.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211710

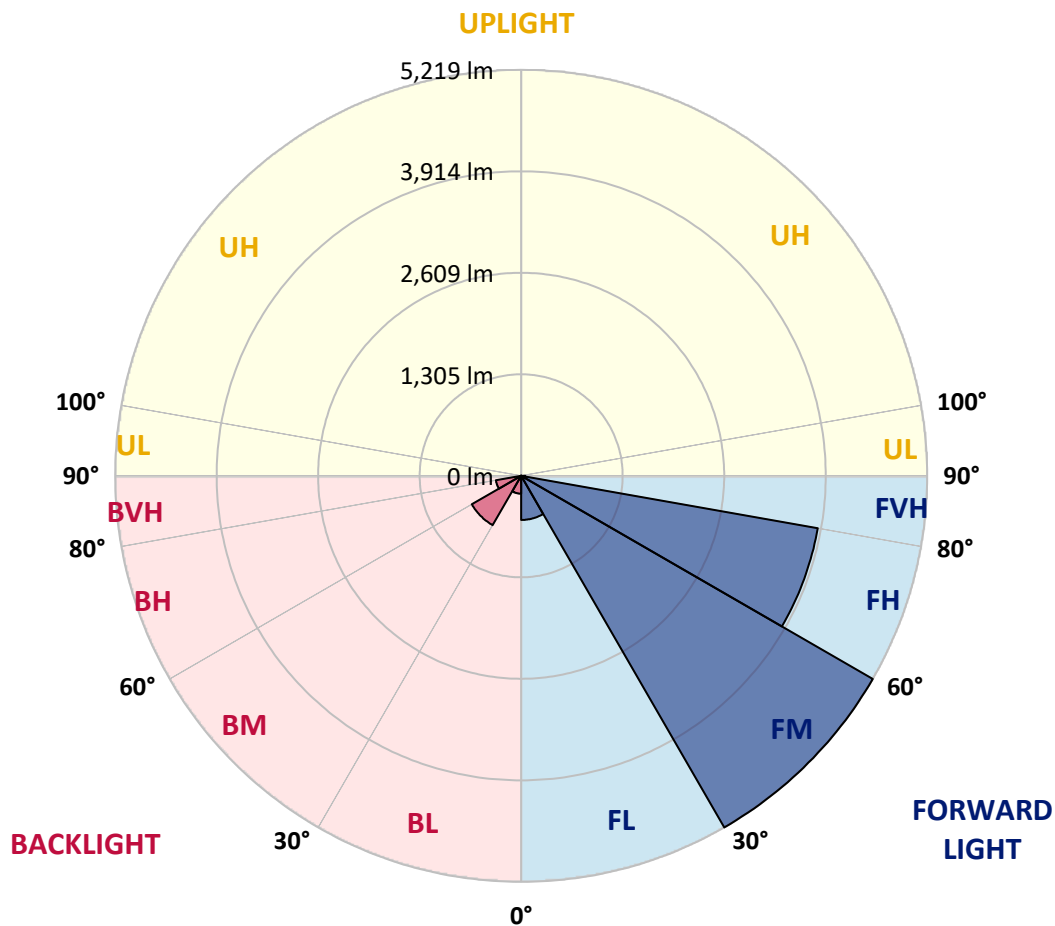
CATALOG NUMBER: ARCH4-90-730-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	567.4	5.2			
FM	(30°-60°)	5218.7	47.4			
FH	(60°-80°)	3871.4	35.2			G2/5000
FVH	(80°-90°)	50.4	0.5			G1/100
BL	(0°-30°)	229.9	2.1	B1/500		
BM	(30°-60°)	732.4	6.7	B1/1000		
BH	(60°-80°)	330.0	3.0	B1/500		G1/500
BVH	(80°-90°)	6.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P1211710

CATALOG NUMBER: ARCH4-90-730-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8
2.5°	1022.6	1024.6	1020.6	1012.6	1004.6	994.6	978.6	952.7	948.7	930.7	910.7
5°	1092.5	1096.5	1090.5	1088.5	1084.5	1070.5	1048.6	1010.6	1006.6	970.7	924.7
7.5°	1116.5	1122.4	1118.5	1118.5	1118.5	1112.5	1102.5	1068.5	1062.5	1016.6	946.7
10°	1134.4	1138.4	1136.4	1144.4	1150.4	1146.4	1140.4	1120.5	1114.5	1068.5	976.7
12.5°	1162.4	1164.4	1166.4	1170.4	1180.4	1184.4	1182.4	1164.4	1160.4	1128.4	1014.6
15°	1188.4	1188.4	1190.4	1208.3	1222.3	1230.3	1232.3	1218.3	1214.3	1188.4	1062.5
17.5°	1212.3	1214.3	1220.3	1240.3	1264.3	1280.2	1290.2	1284.2	1278.2	1258.3	1118.5
20°	1248.3	1252.3	1258.3	1286.2	1310.2	1336.2	1356.1	1354.1	1352.1	1338.2	1184.4
22.5°	1310.2	1314.2	1324.2	1350.1	1374.1	1406.1	1440.0	1438.0	1432.0	1422.0	1262.3
25°	1404.1	1404.1	1410.1	1432.0	1462.0	1499.9	1531.9	1537.9	1531.9	1525.9	1360.1
27.5°	1521.9	1523.9	1523.9	1547.9	1575.8	1623.8	1663.7	1669.7	1669.7	1663.7	1491.9
30°	1685.7	1679.7	1675.7	1695.7	1725.6	1795.5	1865.4	1877.4	1871.4	1881.4	1677.7
32.5°	1967.3	1957.3	1923.3	1927.3	1945.3	2041.2	2159.0	2201.0	2199.0	2216.9	1977.3
35°	2356.7	2336.8	2286.8	2244.9	2242.9	2346.8	2526.5	2684.3	2682.3	2744.2	2432.6
37.5°	2796.1	2822.1	2728.2	2656.3	2634.4	2716.2	2947.9	3289.5	3307.4	3415.3	3029.8
40°	3383.3	3399.3	3279.5	3177.6	3073.8	3103.7	3409.3	3940.6	3972.5	4092.3	3627.0
42.5°	3894.6	3910.6	3840.7	3716.9	3585.0	3529.1	3874.6	4531.7	4557.7	4723.5	4242.1
45°	4242.1	4254.1	4278.1	4290.1	4140.3	4024.4	4443.9	5138.9	5170.9	5362.6	4843.3
47.5°	4513.8	4523.7	4571.7	4691.5	4661.6	4569.7	5023.1	5770.0	5778.0	5991.7	5428.5
50°	4639.6	4663.6	4781.4	4965.1	5097.0	5122.9	5652.2	6367.2	6389.2	6592.9	5981.7
52.5°	4499.8	4507.8	4805.4	5150.9	5416.5	5680.2	6283.3	6920.4	6984.3	7136.1	6479.0
55°	4028.4	4086.4	4537.7	5144.9	5668.2	6209.4	6958.4	7517.6	7575.5	7671.4	6916.4
57.5°	3481.2	3545.1	4094.3	4887.2	5776.0	6698.7	7583.5	8152.7	8192.7	8218.6	7317.9
60°	3007.8	3067.8	3633.0	4393.9	5668.2	7044.3	8164.7	8783.9	8817.8	8747.9	7519.6
62.5°	2426.6	2486.6	3055.8	3740.8	5244.8	7114.2	8596.1	9345.1	9359.1	9169.3	7395.8
65°	1829.5	1869.4	2344.8	2931.9	4503.8	6742.7	8694.0	9694.6	9680.6	9291.2	7024.3
66°	1639.7	1673.7	2093.1	2592.4	4118.3	6403.2	8562.2	9722.6	9708.6	9201.3	6780.6
67.5°	1414.0	1424.0	1769.6	2121.1	3445.2	5682.1	8160.7	9594.7	9606.7	8953.6	6335.2
70°	1104.5	1102.5	1302.2	1476.0	2352.7	4042.4	6806.6	8789.9	8847.8	8018.9	5402.5
72.5°	707.0	683.1	798.9	902.8	1370.1	2346.8	4963.1	7164.1	7262.0	6299.3	4024.4
75°	421.4	397.5	425.4	451.4	657.1	1128.4	2918.0	4875.3	4969.1	4038.4	2394.7
77.5°	315.6	305.6	307.6	285.6	291.6	423.4	1332.2	2576.4	2644.3	1653.7	908.7
80°	241.7	215.7	201.7	211.7	191.7	167.8	495.3	886.8	928.7	391.5	189.7
82.5°	161.8	139.8	129.8	141.8	121.8	93.9	119.8	171.8	167.8	105.9	73.9
85°	83.9	71.9	71.9	71.9	61.9	45.9	51.9	69.9	69.9	55.9	43.9
87.5°	24.0	22.0	26.0	24.0	18.0	18.0	20.0	24.0	24.0	22.0	20.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211710

CATALOG NUMBER: ARCH4-90-730-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8
2.5°	894.8	886.8	864.8	848.8	832.8	818.9	802.9	798.9	790.9	792.9	788.9
5°	900.8	878.8	840.8	804.9	776.9	753.0	723.0	711.0	695.0	689.0	685.1
7.5°	908.7	876.8	820.9	770.9	723.0	675.1	627.1	599.2	581.2	573.2	567.2
10°	926.7	884.8	810.9	733.0	651.1	583.2	535.3	515.3	503.3	501.3	499.3
12.5°	950.7	896.8	800.9	685.1	577.2	513.3	483.3	477.3	475.3	475.3	473.3
15°	986.6	916.7	784.9	629.1	519.3	475.3	461.4	451.4	447.4	447.4	447.4
17.5°	1022.6	940.7	760.9	571.2	479.3	451.4	437.4	431.4	427.4	429.4	427.4
20°	1068.5	968.7	729.0	521.3	453.4	431.4	417.4	411.4	409.4	409.4	409.4
22.5°	1120.5	1000.6	689.0	483.3	431.4	411.4	397.5	391.5	387.5	389.5	389.5
25°	1190.4	1040.6	647.1	445.4	409.4	391.5	375.5	367.5	367.5	369.5	371.5
27.5°	1280.2	1088.5	605.2	421.4	389.5	371.5	353.5	345.5	347.5	351.5	351.5
30°	1412.0	1154.4	563.2	395.5	367.5	347.5	331.5	323.6	327.5	335.5	335.5
32.5°	1599.8	1262.3	527.3	365.5	335.5	313.6	297.6	291.6	301.6	317.6	317.6
35°	1935.3	1460.0	505.3	335.5	301.6	275.6	255.6	249.7	263.6	283.6	283.6
37.5°	2384.7	1777.5	513.3	309.6	273.6	243.7	221.7	213.7	223.7	241.7	247.7
40°	2886.0	2161.0	583.2	287.6	247.7	217.7	195.7	187.7	193.7	201.7	203.7
42.5°	3387.3	2568.5	715.0	271.6	227.7	195.7	175.8	169.8	173.8	175.8	177.8
45°	3886.6	2971.9	880.8	261.6	209.7	177.8	157.8	157.8	159.8	159.8	159.8
47.5°	4360.0	3365.3	1054.5	259.6	193.7	159.8	143.8	145.8	145.8	147.8	147.8
50°	4807.4	3716.9	1230.3	265.6	179.8	143.8	131.8	131.8	131.8	133.8	131.8
52.5°	5180.8	4024.4	1414.0	275.6	165.8	131.8	119.8	119.8	119.8	121.8	119.8
55°	5534.4	4304.1	1601.8	289.6	153.8	121.8	109.8	105.9	105.9	107.9	105.9
57.5°	5822.0	4489.8	1779.5	291.6	143.8	111.8	101.9	95.9	95.9	95.9	95.9
60°	5833.9	4381.9	1831.5	255.6	131.8	101.9	91.9	83.9	85.9	85.9	85.9
62.5°	5452.5	3814.7	1472.0	191.7	117.8	91.9	83.9	75.9	75.9	75.9	75.9
65°	4703.5	2967.9	862.8	151.8	101.9	81.9	73.9	67.9	67.9	67.9	65.9
66°	4352.0	2602.4	661.1	137.8	95.9	79.9	71.9	65.9	63.9	61.9	61.9
67.5°	3778.8	2057.2	413.4	121.8	87.9	73.9	65.9	59.9	57.9	55.9	55.9
70°	2846.1	1306.2	201.7	93.9	75.9	63.9	57.9	51.9	49.9	47.9	45.9
72.5°	1997.2	764.9	105.9	71.9	61.9	55.9	49.9	43.9	41.9	39.9	39.9
75°	1128.4	369.5	69.9	51.9	49.9	45.9	41.9	36.0	34.0	34.0	34.0
77.5°	427.4	127.8	47.9	37.9	39.9	36.0	30.0	30.0	28.0	30.0	28.0
80°	111.8	55.9	30.0	28.0	30.0	26.0	22.0	24.0	24.0	24.0	24.0
82.5°	59.9	32.0	18.0	20.0	18.0	18.0	14.0	16.0	18.0	16.0	18.0
85°	41.9	16.0	10.0	10.0	8.0	8.0	6.0	8.0	10.0	8.0	8.0
87.5°	22.0	6.0	6.0	6.0	6.0	4.0	2.0	0.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)